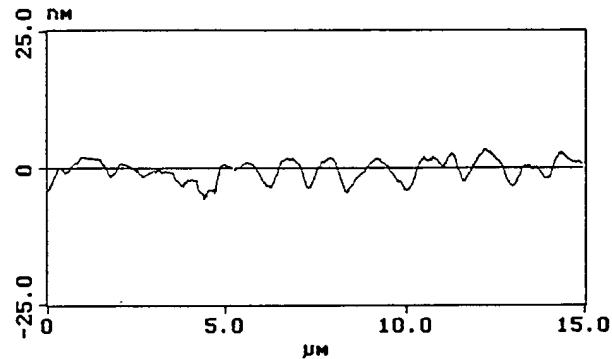


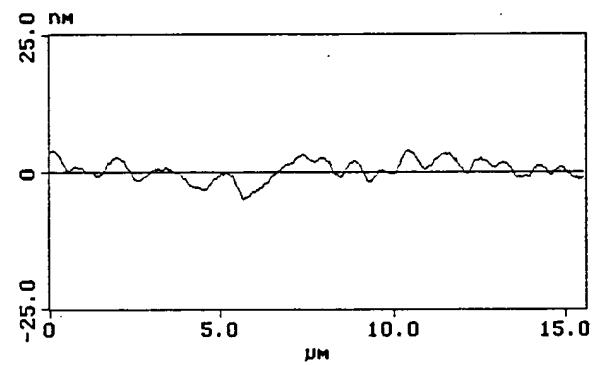
Growth surface  
prior to growth  
of the lower  
DBR

**Figure 1A**



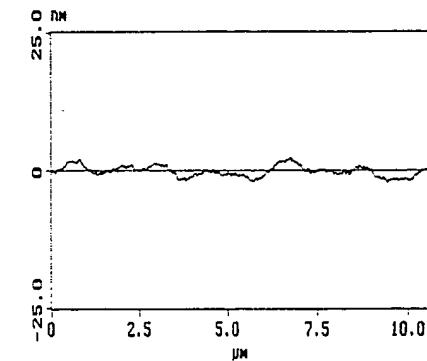
Growth surface  
after the growth  
of 20 DBR  
pair layers

**Figure 1B**

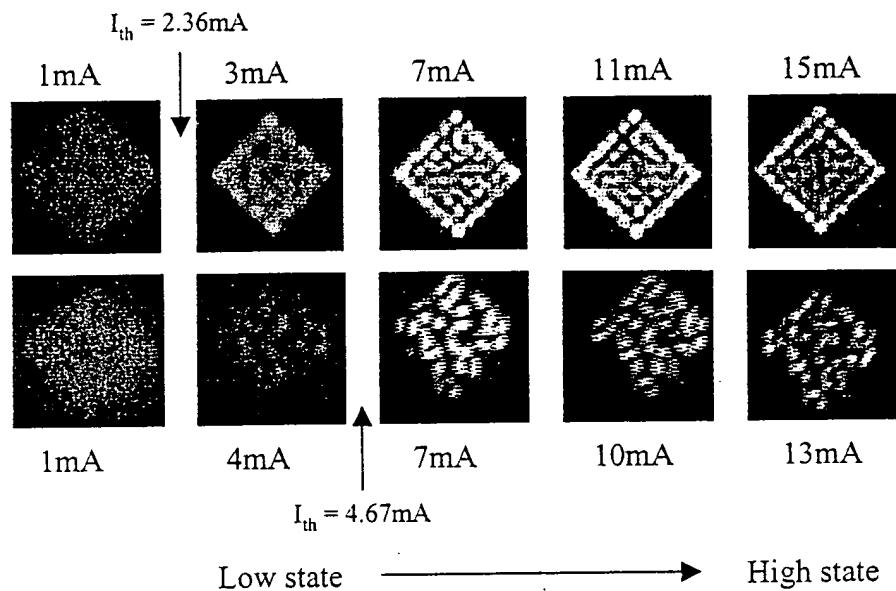


Growth surface  
during growth of the  
active region

**Figure 1C**



**Figure 2A (PRIOR ART)**  
**NxN modal**  
**pattern**



**Figure 2B**  
**spatially fixed**  
**modal pattern**

09620726-100500

### Modal Pattern Peak Spacing with Drive Current

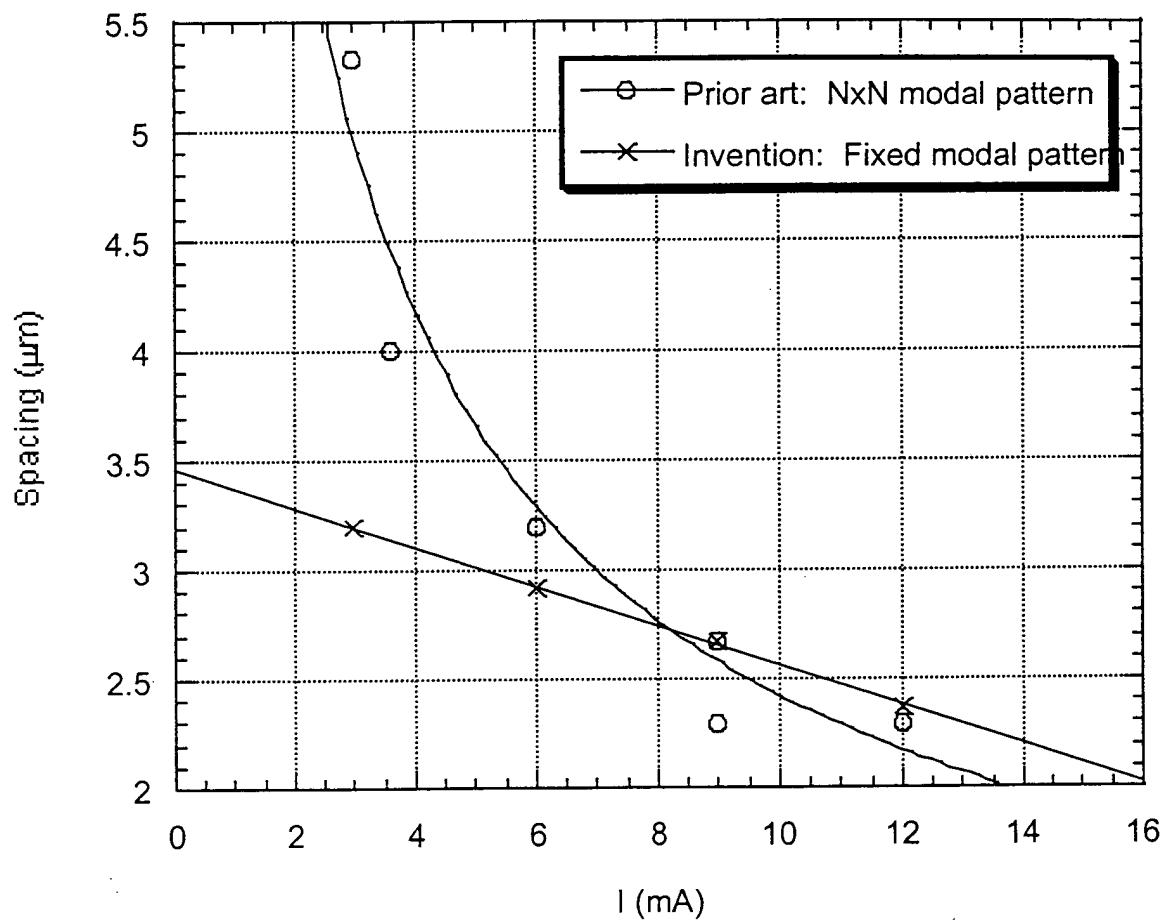
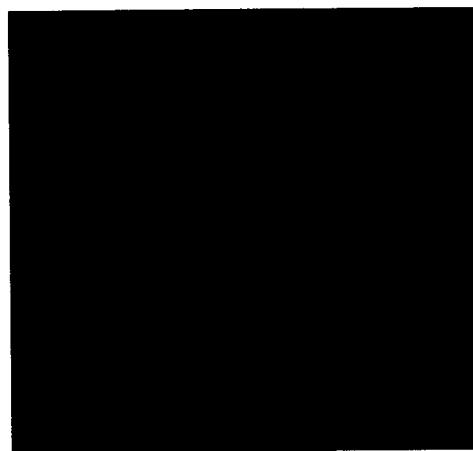


Figure 3



0 9 6 3 0 7 2 6 6 " 3 0 0 5 0 0

Figure 4

## Spectral Width as a Function of Bias Current

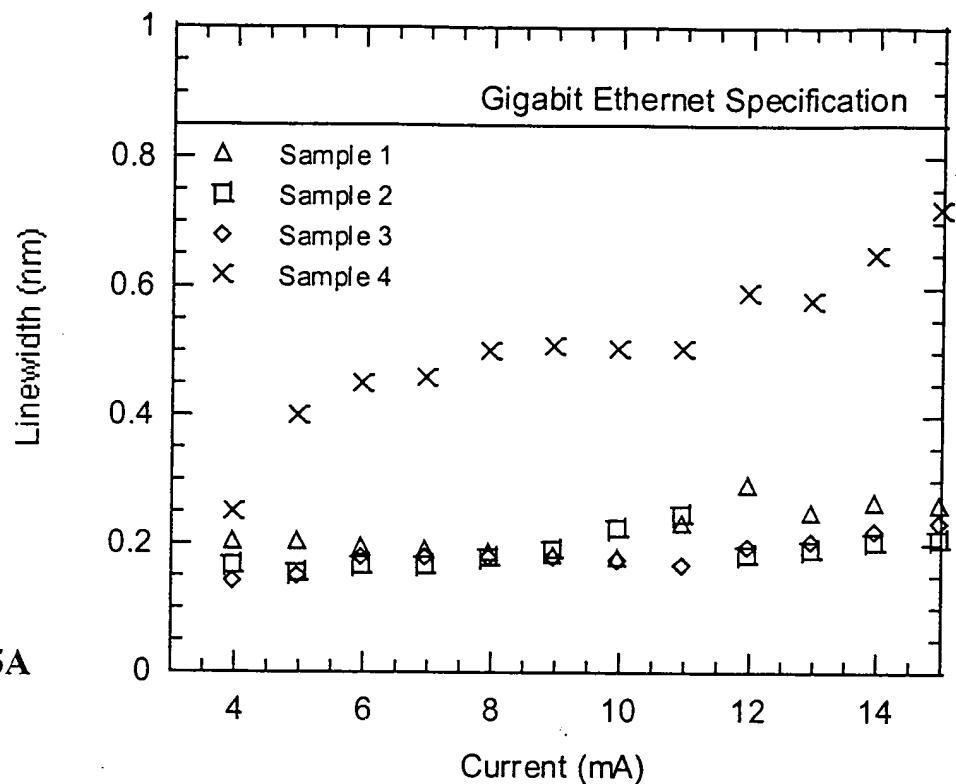


Figure 5A

## Optical Spectrum at 2mW Output Power

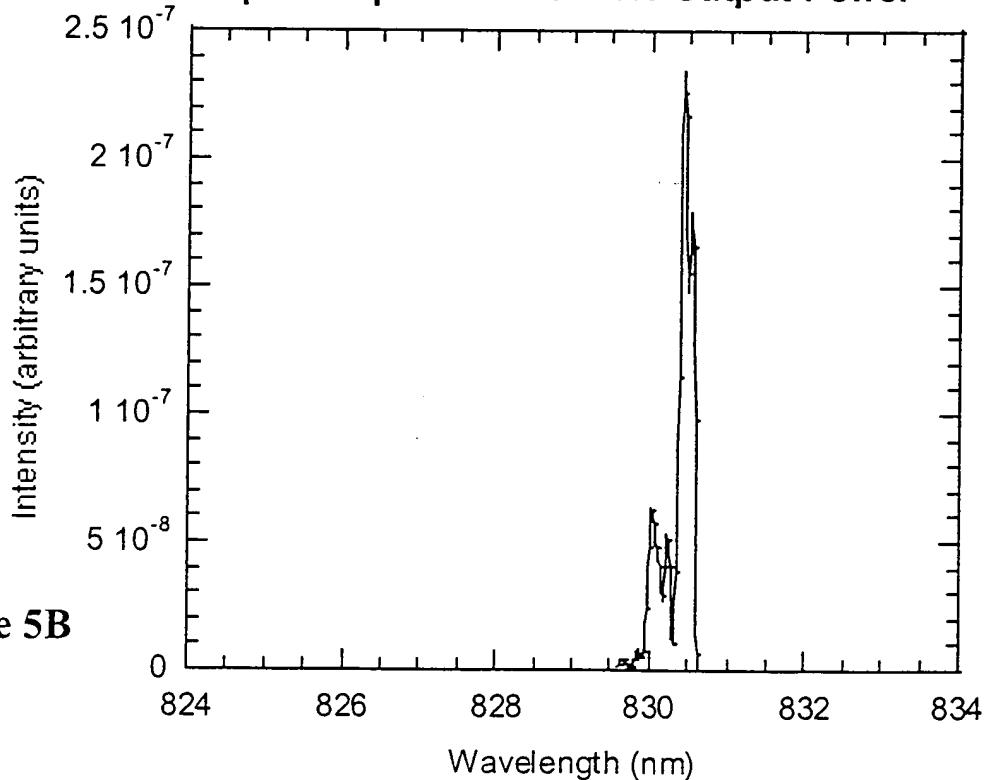


Figure 5B

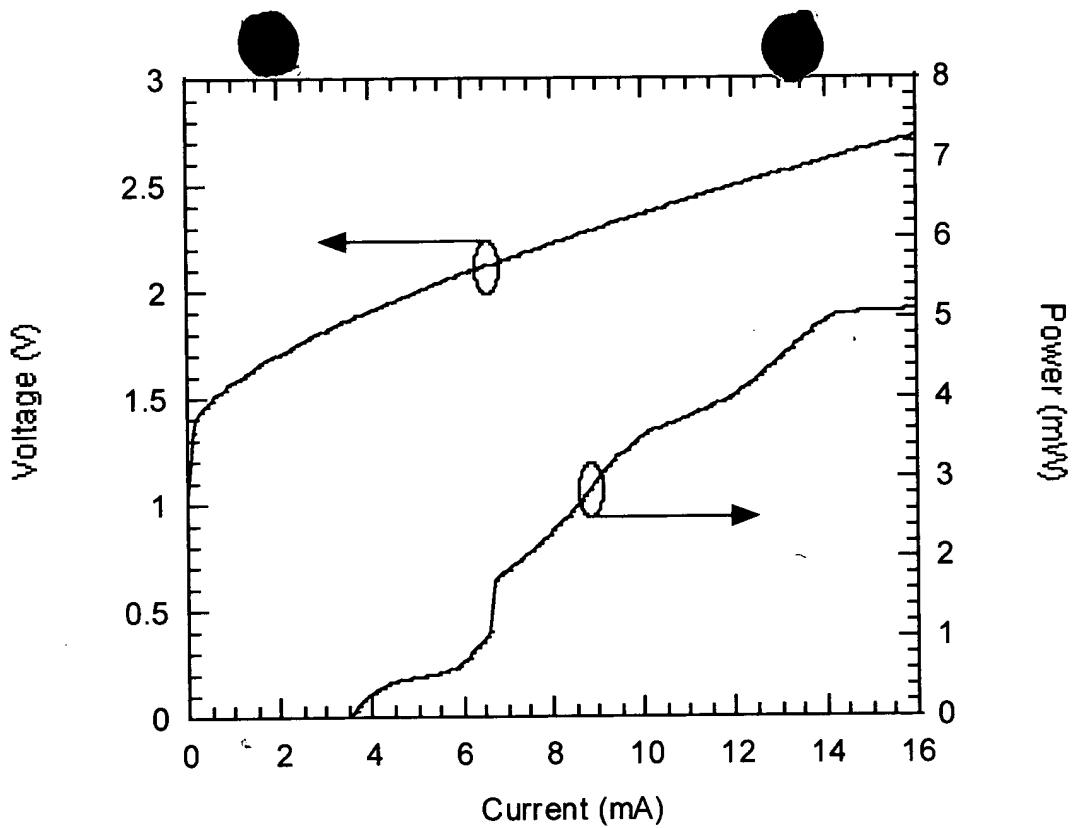


Figure 6a Prior art

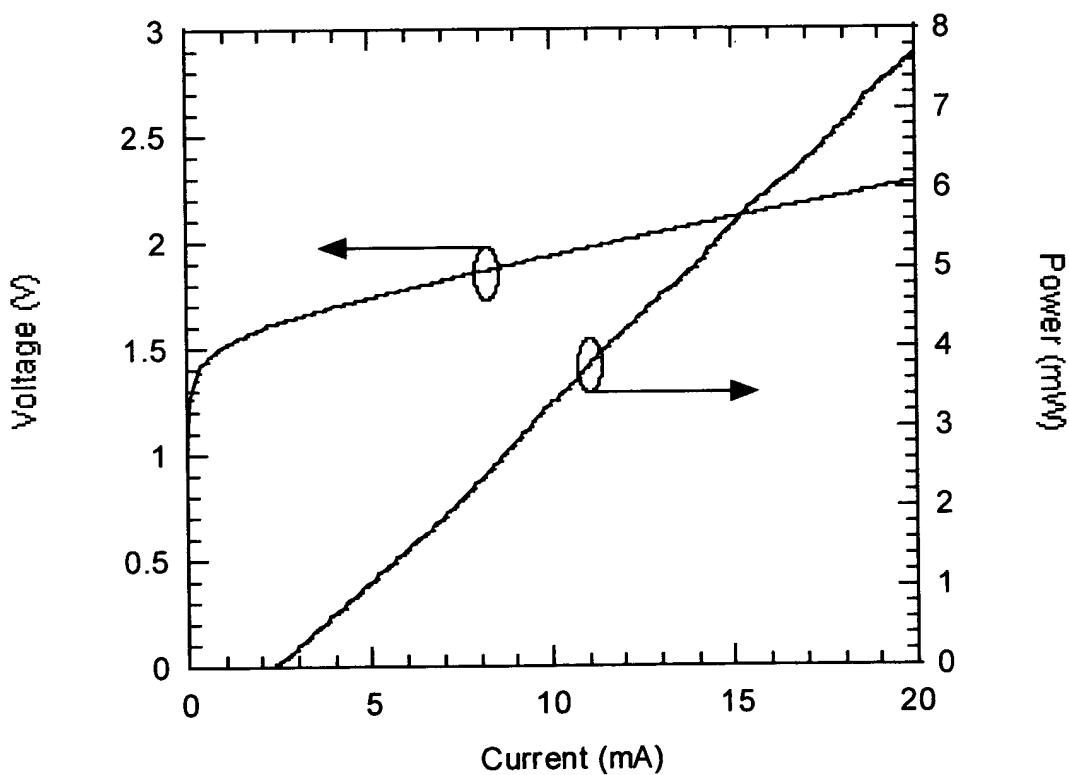


Figure 6b